

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	36	((showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust\$4 or vent\$4) same (increas\$4 or decreas\$4) same (ratio or diameter or radius)) and (@rlad<="20031119" or @ad<="20031119"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 13:43
L2	578	((showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (var\$5 or increas\$4 or decreas\$4) same (ratio or diameter or radius)) and (@rlad<="20031119" or @ad<="20031119"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 15:17
L3	360	L2 and (wafer or substrate or workpiece or (work adj piece))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 15:19
L4	17	((showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust\$4 or vent\$4) same var\$5 same (ratio or diameter or radius)) and (@rlad<="20031119" or @ad<="20031119"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 15:20
L5	323	3 not (L4 or 1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 17:57
L6	1	("6537418").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 17:57

## EAST Search History

S1	22	("20010016364" "20040216668" "20050103265" "20050160983" "20050229848" "4209357" "4579618" "4590042" "4793975" "5445699" "5554226" "5614026" "5781693" "5789028" "5976308" "6086677" "6090210" "6537418" "6544341" "6578515" "6821910" "6852167").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 16:37
S2	6051	((118/715) or (156/345.33,345.34)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 16:41
S3	10	S2 and (showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust or vent) and @pd>="20060609" and (@rlad<="20031119" or @ad<="20031119")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 18:51
S4	1354	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust or vent) and (@rlad<="20031119" or @ad<="20031119")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 11:57
S5	1172	S4 not S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 23:20
S6	1	("20050208217").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/29 23:20
S7	329	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) and (exhaust or vent)	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:57
S8	177	S7 and (C23C016\$ or H01L021\$)	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:58

## EAST Search History

S9	346	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) and (exhaust\$4 or vent\$4))	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:57
S10	329	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) and (exhaust or vent)	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:58
S11	177	S10 and (C23C016\$ or H01L021\$)	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:58
S12	26	S9 and (C23C016\$ or H01L021\$) not S11	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 10:58
S13	6051	((118/715) or (156/345.33,345.34)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 12:01
S14	1354	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust or vent) and (@rlad<="20031119" or @ad<="20031119")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/30 12:01
S15	359	(showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust\$4 or vent\$4) and (@rlad<="20031119" or @ad<="20031119") not (S14 or S13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 10:21
S16	0	("2005/0229848").URPN.	USPAT	ADJ	ON	2007/03/30 13:54
S17	10	("4209357"   "4579618"   "4590042"   "5422139"   "5624498"   "5716534"   "5744049"   "5781693").PN. OR ("6537418").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/30 13:56
S18	17	((showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (exhaust\$4 or vent\$4) same var\$5 same (ratio or diameter or radius)) and (@rlad<="20031119" or @ad<="20031119")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 13:42

## EAST Search History

S19	578	((showerhead or (shower head) or (gas (diffus\$4 or distribut\$4 or despens\$4 or dispers\$4) (plate or means))) same (var\$5 or increas\$4 or decreas\$4) same (ratio or diameter or radius)) and (@rlad<="20031119" or @ad<="20031119")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/11 15:16
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